SECTION – C
(DESCRIPTIVE QUESTIONS)

Q-16: Factorize any Five of the following.

(i) $r^4 + 4s^4$ (ii) $a^3 - a^2 + 2$ (iii) $27x^3 - 1 + 8y^6 + 18xy^2$

(iv) $x^4y2 - 2 + \frac{1}{x^4y^2}$ (v) $1 - x^2 - y^2 + 2xy$ (vi) $5(2x+y)4 - 13(2x+y)^2 - 6$

(vii) $x^4(y^2 - z^2) + y^4(z^2 - x^2) + z^4(x^2 - y^2)$

Q-17: (a) Construct a ΔABC such that $m\overline{AB} = 4.5$ cm, $m\overline{BC} = 5$cm, $m\angle B = 60^\circ$ and Also draw its circumscribed circle.

(b) Find all the values of trigonometric ratios of 45°.

Q-18 (a) if $A = \begin{vmatrix} 2 & 3 \\ 4 & 5 \end{vmatrix}$ then prove that $|A^{-1}| = \frac{1}{|A|}$

(b) Reduce to a single term.

$\frac{1}{3} \log a\,(x-1)^3 + \frac{10}{9} \log a\,(x+1) - \frac{1}{} \log a\,(x+1)$